

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0900 West Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	6
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0900_01_s _ 2013_6				
Comment Code					
Inspector Comment					
This LMA has the updated O&M manuals for the district.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	12
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0900_01_s _ 2013_12				
Comment Code					
Inspector Comment					
This LMA has an adequate amount of sandbags, sand and various flood fight supplies in their possession.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	0.00	Rating **	A	Issue No.	16	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_RD0900_01_s_2013_16					
Comment Code						
Inspector Comment						
The crews in this LMA have taken the flood fighting training course provided by DWR.						

No Photos

LM Start	2.00	Rating **	A/W	Issue No.	1
LM End	2.25	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.559202 °	38.555462 °
				-121.517707 °	-121.516297 °
DWR ID	DWR_RD0900_01_s_2012_1				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
USACE has started to construct a setback levee in this area and has taken control of this portion of the levee.					

Photo 1 of 1 : FA_2016_RD0900_230_1_20160823_00001.jpg



View of the new setback levee looking downstream during fall 2014 inspection.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	2.26	Rating **	A/W	Issue No.	17
LM End	3.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.555304 °	38.536946 °
				-121.516127 °	-121.519774 °
DWR ID	DWR_RD0900_01_s_2012_17				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0900_230_17_20160823_00011.jpg



View of the DWR environmental mitigation site.

LM Start	2.35	Rating **	M	Issue No.	10
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.554277 °	38.552504 °
				-121.515263 °	-121.514752 °
DWR ID	DWR_RD0900_01_s_2016_10				
Comment Code					
Inspector Comment					
2007 - Have good berm width with minor toe erosion. Close to the levee toe protection, but levee slope is steep. 2011 - New large erosion pocket. 2012 - Minor new erosion at the toe. 2015: No observed changes. [2015 Site ID: SAC_56-7_R]					

Photo 1 of 1 : FA_2016_RD0900_230_10_20160823_00008.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

Photo 1 of 1 : FA_2016_RD0900_230_9_20160823_00007.jpg



USACE 2013 Photo #1

Photo 1 of 1 : FA_2016_RD0900_230_61_20161010_00031.jpg



10/06/2016

View of the landside of the levee looking downstream. Fall 2016

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	3.27	Rating **	M	Issue No.	2
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.541246°	38.538689°
				-121.513561°	-121.515916°
DWR ID	DWR_RD0900_01_s_2016_2				

Comment Code

Inspector Comment

2008 - Erosion into levee toe. Over steepened levee slope, worst at the upstream end. 2009 - Near vertical banks from rotational slumping, hidden by vegetation. 2010 - Boat sinking more, may be causing eddy scour around it. Difficult to see the vertical slumps due to dense vegetation. 2011 - Minor new erosion at the toe. The paddleboat that was sitting at this site for years has been removed. 2012 - Site extended upstream due to additional erosion. 2015: No observed changes. [2015 Site ID: SAC_55-7_R]

Photo 1 of 1 : FA_2016_RD0900_230_2_20160823_00002.jpg



USACE 2013 Photo #1

LM Start	3.41	Rating **	M	Issue No.	4
LM End	3.41	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.539770 °	38.539770 °
				-121.515276 °	-121.515276 °
DWR ID	DWR RD0900 01 s 2014 4				

Comment Code

S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.

Inspector Comment

Photo 1 of 2 : FA_2016_RD0900_230_4_20160823_00003.jpg



Updated picture of the slope instability on the waterside of the levee looking downstream during spring 2016 inspection.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	3.41	Rating **	M	Issue No.	4 (cont)	
LM End	3.41	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.539770 °		38.539770 °
				-121.515276 °		-121.515276 °
DWR ID	DWR_RD0900_01_s_2014_4					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						

Photo 2 of 2 : FA_2016_RD0900_230_4_20160823_00004.jpg



A slope instability was found on the waterside slope of the levee looking downstream.

LM Start	3.45	Rating **	C	Issue No.	63
LM End	3.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.539368°	38.539368°
				-121.515839°	-121.515839°
DWR ID	DWR_RD0900_01_s_2016_63				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

* Location
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WS : Water Side
CR : Crown

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+ Issue Type
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	5.51	Rating **	M	Issue No.	958
LM End	5.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.518988°	38.518988°
				-121.527738°	-121.527738°
DWR ID	DWR_RD0900_01_s_2012_958				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

Photo 1 of 1 : FA_2016_RD0900_230_958_20160823_00024.jpg



Elderberry on the landside of the levee. The picture was taken from the crown looking downstream.

LM Start	5.52	Rating **	M	Issue No.	52
LM End	5.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.518883°	38.518883°
				-121.527800°	-121.527800°
DWR ID	DWR_RD0900_01_s_2012_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

Photo 1 of 1 : FA_2016_RD0900_230_64_20160823_00018.jpg



View of a tree stump on the landside of the levee looking downstream.

Photo 1 of 1 : FA_2016_RD0900_230_25_20160823_00013.jpg



08/26/2011

Elderberry located on the landside of the levee obstructing the view. The

* Location	** Rating	+ Issue Type
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	6.87	Rating **	M	Issue No.	62
LM End	6.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.514974 °	38.514974 °
				-121.552041 °	-121.552041 °
DWR ID	DWR_RD0900_01_f_2016_62				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0900_230_62_20161010_00032.jpg



View of a rodent hole on the waterside of the levee.

LM Start	7.10	Rating **	M	Issue No.	343
LM End	7.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.512642 °	38.512642 °
				-121.554881 °	-121.554881 °
DWR ID	DWR_RD0900_01_s_2012_343				
Comment Code					
DE : Debris					
Inspector Comment					
Concrete debris from old railroad track.					

Photo 1 of 1 : FA_2016_RD0900_230_343_20160823_00023.jpg



Concrete debris from old rail road track was found on the landside of the levee looking upstream.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	7.21	Rating **	M	Issue No.	8
LM End	7.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.511104 °	38.511104 °
				-121.555664 °	-121.555664 °
DWR ID	DWR_RD0900_01_s_2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

Photo 1 of 1 : FA_2016_RD0900_230_8_20160823_00006.jpg



An elderberry bush was found on the landside of the levee looking downstream.

LM Start	7.25	Rating **	M	Issue No.	7
LM End	7.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.510613 °	38.510613 °
				-121.555969 °	-121.555969 °
DWR ID	DWR_RD0900_01_s_2012_7				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking the visibility.					

Photo 1 of 1 : FA_2016_RD0900_230_7_20160823_00005.jpg



View of elderberries on the landward slope looking upstream.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	7.47	Rating **	M	Issue No.	59
LM End	7.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.507648°	38.507648°
				-121.557571°	-121.557571°
DWR ID	DWR_RD0900_01_f_2012_59				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arrundo growth on the waterside slope of the levee.					

Photo 1 of 2 : FA_2016_RD0900_230_59_20161010_00033.jpg



Updated picture of the arundo on the waterside of the levee during fall 2016 inspection.

LM Start	7.47	Rating **	M	Issue No.	59 (cont)
LM End	7.47	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0900_230_59_20160823_00015.jpg



Updated picture of the arundo on the waterside of the levee during spring 2016 inspection.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	7.70	10/06/2016 10/06/2016	Pavel Kazi

LM Start	7.78	Rating **	M	Issue No.	15
LM End	7.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.503490°	38.503490°
				-121.559770°	-121.559770°
DWR ID	DWR_RD0900_01_f_2013_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arrundo on the waterside					

Photo 1 of 2 : FA_2016_RD0900_230_15_20160823_00009.jpg



Updated picture of the arundo on the waterside of the levee during spring 2016 inspection.

LM Start	7.78	Rating **	M	Issue No.	15 (cont)
LM End	7.78	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2016_RD0900_230_15_20160823_00010.jpg



View of arundo on the waterside of the levee looking downstream.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

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+ Issue Type
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/06/2016 10/06/2016	Pavel Kazi

LM Start	0.09	Rating **	A	Issue No.	44
LM End	0.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.580961 °	38.580961 °
				-121.568222 °	-121.568222 °
DWR ID	DWR_RD0900_02_f_2016_44				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation.					

Photo 1 of 1 : FA_2016_RD0900_231_44_20161010_00044.jpg



View of the landside of the levee looking downstream. Fall 2016

LM Start	3.26	Rating **	M	Issue No.	15
LM End	3.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.540943 °	38.540943 °
				-121.582280 °	-121.582280 °
DWR ID	DWR_RD0900_02_s_2012_15				
Comment Code					
PI : Pipe					
Inspector Comment					
Recently removed waterward pump. Some pipe, equipment and debris remain.					

Photo 1 of 1 : FA_2016_RD0900_231_15_20160823_00003.jpg



Abandon pipes and debris was found on the landside of the levee looking upstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	5.26	10/06/2016 10/06/2016	Pavel Kazi

LM Start	5.04	Rating **	M	Issue No.	45
LM End	5.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.515091 °	38.515091 °
				-121.582178 °	-121.582178 °
DWR ID	DWR_RD0900_02_f _ 2016_45				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD0900_231_45_20161010_00046.jpg



View of debris on the landside shoulder of the levee looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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